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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,035	06/23/2003	Mizuo Miyazaki	CPR-00101.P.1-US	9541
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400 HOLIDAY COURT			AUDET, MAURY A	
SUITE 102 WARRENTON	I, VA 20186		ART UNIT	PAPER NUMBER
			1654	
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			12/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summany		10/602,035	MIYAZAKI, MIZUO			
	Office Action Summary	Examiner	Art Unit			
: :		Maury Audet	1654			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	Responsive to communication(s) filed on 18 Oc	ctober 2007.				
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠	Claim(s) 1-32 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
·	6)⊠ Claim(s) <u>1-32</u> is/are rejected.					
. 7)	Claim(s) is/are objected to	•				
8)	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	ion Papers		•			
9) The specification is objected to by the Examiner.						
• —	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
,—	Applicant may not request that any objection to the					
٠.	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		·				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Applicant's filing of the After Final Amendment and Notice of Appeal are acknowledged. As well as the amendment to cancel claims 32-36 (products-compositions). Claims 1-32, drawn to the method of use, remain as unamended. In order to clarify the outstanding 35 USC 103 rejection, a secondary reference has been added, which necessitates that the present action be sent NON-FINAL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Powers et al. (US 5,543,396; also cited in IDS of 04/23/04, P5) in view of Porter et al. (US 5,591,199) and Scharpe et al. (US 2002/0061839 A1).

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As previously noted, Applicant's arguments were considered but were not found persuasive. Namely, as Applicant points out, Powers et al. teach that the elected peptide is used as "anti-coagulants, anti-inflammatory agents"; the latter being directed to the underlying physiological basis of tissue adhesion and reducing thereof, well known in the art to effectively carry out reducing adhesion formation (e.g. use of protease inhibitors in e.g. stents, see below "Prior Art Made of Record (on this point) and Not Relied On", citing by example Porter et al. (US 5,591,199)). The rejection as to the method and forms of administration thereto is maintained. In order to clarify the record, Porter et al. has been expressly incorporated in the rejection. The remainder of the rejection remains substantively unchanged, other than the express incorporation of Porter et al.

Powers et al. is discussed above. Powers et al. teach a pharmaceutical composition in any form (inherently containing a diluent or excipient since can be in the form of e.g. tablet, aqueous or oily suspension, etc.) (col. 16, lines 23-40), comprising the elected compound of the invention Suc-Val-Pro-PheP(Oph)2 (e.g. Example 17), describes at the "best inhibitor for [serine proteases] chymotrypsin and chymotrysin-like enzymes" (col. 5, lines 40-44; col. 3, lines 50-53), which are involved in "tissue remodeling" [e.g. tissue adhesion formation] (col. 1, lines 41-43). However, Powers et al. does not expressly teach the use of Suc-Val-Pro-PheP(Oph)2 to reduce [tissue] adhesion formation (e.g. claim 1) or all the various forms of administration (e.g. claim 25-30, such as liposomes).

Porter et al. (US 5,591,199), also discussed previously under section "Prior Art Made of Record But Not Relied Upon" teach at col. 5-6 that protease inhibitors are known to be used for

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reducing aggregation/tissue adhesion, and applied via stents at the site of tissue for such 'purposes:

For restenosis inhibition, it is typically desirable to arrest the proliferation of smooth muscle cells. Accordingly, drugs which prevent platelet aggregation and adhesion can be used, such as antiplatelets, antithrombogenics, and anticoagulants. In addition, receptor blockers, growth factors and other hormones may be used to limit the normal repair response. The following are groups of particular drugs which can be used to treat vascular disease, such as atherosclerosis and restenosis: anticoagulants, including heparin, hirudin, hirulog, tissue plasminogen activator, and fibrinogen; anti-inflammatory agents, such as steroids, ibuprofen, aspirin, somatostatin, angiopeptin, and anti-inflammatory peptide 2; cytotoxins, including colchicine, dexamethasone, doxorubicin, methotrexate, and psoralen; antibiotics; and enzymes and enzyme inhibitors, including urokinase, 2,4-dinitrophenol, and thiol protease inhibitor.

Scharpe et al. teach the use of serine protease inhibitors such. as Suc-Val-Pro-Phe (para 69) in virtually any pharmaceutical admixture/formulation, such as liposomes (para 125).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the elected compound Suc-Val-Pro-PheP(Oph)2 to reduce [tissue] adhesion formation as one of the methods relevant to inhibiting the actions of the serine protease chymotrypsin methods in Powers et al., because Powers et al. advantageously teaches the use of Suc-Val-Pro-PheP(Oph)2 to inhibit chymotrysin, which is a serine protease known to be used in the pathway of tissue remodeling (e.g. adhesion/aggregation/binding). One of ordinary skill in the art would recognize that administering Suc-Val-Pro-PheP(Oph)2 would combat such tissue adhesion caused by chymotrypsin based on the native properties therein, based on Powers et al. alone or in view of the analogous art teachings of Porter et al. that protease inhibitors are known to be used for reducing aggregation/tissue adhesion.

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Additionally, it would have been obvious to one of ordinary skill in the art at the time of the invention to put the elected compound Suc-Val-Pro-PheP(Oph)2 in any formulation/ admixtures (e.g. liposomes) in the composition of Powers et al, because Scharpe et al. teach that like exact or like serine protease inhibitors may be put in composition with e.g. liposomes, etc. depending on the desired result/administration route; just as Powers et al. likewise discussed in terms of motivation for route/type of administration being left open to the skilled artisan and the desired effect. Sharpe et al. is cited merely by example of art teaching/suggesting other known routes of administration of known compounds, since the art is well versed that administration routes/ranges are completely open to routine optimization, depending on the desired results/intended use, absent evidence to the contrary of some unexpected deletrious effect via one or more routes for the purpose intended.

From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention.

Therefore, the invention as a whole was prima facie obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined

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application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321 (d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, are gistered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-32 on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of copending Application No. 10/544,254 (Miyazaki et al., Publication US 2006/0122101 A1), is maintained for the reasons of record. Applicant argues '254 claims modes of administration via IV, oral, percutaneous that the present application does not claim. This is not found persuasive, as the present rejection is made under obviousness, as such modes of administration are well known the ordinary skilled artisan and merely a matter of routine optimization, including guidance by the present specification, to which these claims are read in light thereof.

The remainder of the rejection is repeated below for continuity of record:

Although the conflicting claims are not identical, they are not patentably distinct from each other because even though the '254 expressly claims its subject matter in the form of a "medicament" only, therein, the limitations are directed to the presently elected compound Suc-

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Val-Pro-PheP(Oph)2 in any formulation/admixtures, for the purpose of inhibiting tissue adhesion.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Observations

As previously noted (Applicant's acknowledgement as well) claims 25-30 depend from claim 1 directly or indirectly, the first independent claim grouping, but are sandwiched in the middle of the second independent claim grouping (claim 16). It is suggested, for clarity (and along With any other amendments) that Applicant-consider amending the claims to delete claims 1-32 and start with new claims beginning at claim 25, wherein the claims are properly grouped.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maury Audet whose telephone number is 571-272-0960. The examiner can normally be reached on M-Th. 7AM-5:30PM (10 Hrs.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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MA, 12/7/2007

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications maybe obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, seehttp://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-91:97 (toll-free).

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MAURY AUDET PATENT EXAMINER